Exploring the Extreme			
2008 Science			
State Frameworks			
Mississippi Science			
Grade K			
Activity/Lesson	**State**	**Standards**	
Finding the Center of Gravity Using Rulers	MS	SCI.K.1.a	Demonstrate an understanding of a simple investigation by asking questions.
Finding the Center of Gravity Using Rulers	MS	SCI.K.1.c	Identify simple tools (rulers, thermometers, scales, and hand lenses) used to gather information.
Finding the Center of Gravity Using Rulers	MS	SCI.K.1.d	Recognize that people have always had questions about their world and identify science as one way of answering questions and explaining the natural world.
Finding the Center of Gravity Using Rulers	MS	SCI.K.1.e	Describe ideas using drawings and oral expression.
Finding the Center of Gravity Using Rulers	MS	SCI.K.2.c.1	Understand external motion of objects (e.g., straight-line, circular, back-and-forth, rotational)
Exploring the Extreme			
2008 Science			
State Frameworks			
Mississippi Science			
Grade 1			
Activity/Lesson	**State**	**Standards**	
Finding the Center of Gravity Using Rulers	MS	SCI.1.1.a	Demonstrate an understanding of a simple investigation by asking appropriate questions about objects, organisms, and events.
Exploring the Extreme			
2008 Science			
State Frameworks			
Mississippi Science			
Grade 2			
Activity/Lesson	**State**	**Standards**	
Finding the Center of Gravity Using Rulers	MS	SCI.2.1.a	Formulate questions about objects and organisms and predict outcomes in order to conduct a simple investigation.
Exploring the Extreme			
2008 Science			
State Frameworks			
Mississippi Science			
Grade 3			
Activity/Lesson	**State**	**Standards**	

Finding the Center of Gravity Using Rulers	MS	SCI.3.1.a	Identify questions and predict outcomes that can be examined through scientific investigations.
Finding the Center of Gravity Using Rulers	MS	SCI.3.1.d	Draw conclusions and communicate the results of an investigation.
Finding the Center of Gravity Using Plumb Lines	MS	SCI.3.1.a	Identify questions and predict outcomes that can be examined through scientific investigations.
Finding the Center of Gravity Using Plumb Lines	MS	SCI.3.1.d	Draw conclusions and communicate the results of an investigation.
Changing the Center of Gravity Using Moment Arms	MS	SCI.3.1.a	Identify questions and predict outcomes that can be examined through scientific investigations.
Changing the Center of Gravity Using Moment Arms	MS	SCI.3.1.c.1	Be able to measure length, to the nearest half of an inch, foot, yard, centimeter, and meter
Changing the Center of Gravity Using Moment Arms	MS	SCI.3.1.d	Draw conclusions and communicate the results of an investigation.
Exploring the Extreme			
2008 Science			
State Frameworks			
Mississippi Science			
Grade 4			
Activity/Lesson	**State**	**Standards**	
Finding the Center of Gravity Using Rulers	MS	SCI.4.1.a	Form hypotheses and predict outcomes of problems to be investigated.
Finding the Center of Gravity Using Rulers	MS	SCI.4.1.b	Use the senses and simple tools to gather qualitative information about objects or events (size, shape, color, texture, sound, position, change).
Finding the Center of Gravity Using Plumb Lines	MS	SCI.4.1.a	Form hypotheses and predict outcomes of problems to be investigated.
Changing the Center of Gravity Using Moment Arms	MS	SCI.4.1.a	Form hypotheses and predict outcomes of problems to be investigated.
Changing the Center of Gravity Using Moment Arms	MS	SCI.4.1.b	Use the senses and simple tools to gather qualitative information about objects or events (size, shape, color, texture, sound, position, change).
Exploring the Extreme			
2008 Science			
State Frameworks			
Mississippi Science			
Grade 5			
Activity/Lesson	**State**	**Standards**	

Jet Propulsion	MS	SCI.5.1.a	Form a hypothesis, predict outcomes, and conduct a fair investigation that includes manipulating variables and using experimental controls.
Vectoring	MS	SCI.5.1.a	Form a hypothesis, predict outcomes, and conduct a fair investigation that includes manipulating variables and using experimental controls.
Exploring the Extreme			
2008 Science			
State Frameworks			
Mississippi Science			
Grade 6			
Activity/Lesson	**State**	**Standards**	
Jet Propulsion	MS	SCI.6.1.a	Design and conduct an investigation that includes predicting outcomes, using experimental controls, and making inferences.
Vectoring	MS	SCI.6.1.a	Design and conduct an investigation that includes predicting outcomes, using experimental controls, and making inferences.
Vectoring	MS	SCI.6.1.d	Analyze data collected from a scientific investigation to construct explanations and draw conclusions.
Vectoring	MS	SCI.6.1.h	Recognize and analyze alternative explanations and predictions.
Center of Gravity, Pitch, Yaw	MS	SCI.6.1.c.1	Be able to use tools (e.g., English rulers [to the nearest one-sixteenth of an inch], metric rulers [to the nearest millimeter], thermometers, scales, hand lenses, microscopes, balances, clocks, calculators, anemometers, rain gauges, barometers, hygrometers, telescopes, compasses, spring scales)
Exploring the Extreme			
2008 Science			
State Frameworks			
Mississippi Science			
Grade 7			
Activity/Lesson	**State**	**Standards**	
Vectoring	MS	SCI.7.1.a	Design, conduct, and draw conclusions from an investigation that includes using experimental controls.

Center of Gravity, Pitch, Yaw	MS	SCI.7.1.c.1	Be able to use tools (e.g., English rulers [to the nearest one-sixteenth of an inch], metric rulers [to the nearest millimeter], thermometers, scales, hand lenses, microscopes, balances, clocks, calculators, anemometers, rain gauges, barometers, hygrometers, telescopes, compasses, spring scales, pH indicators, stopwatches)
Exploring the Extreme			
2008 Science			
State Frameworks			
Mississippi Science			
Grade 8			
Activity/Lesson	**State**	**Standards**	
Vectoring	MS	SCI.8.1.a	Design, conduct, and analyze conclusions from an investigation that includes using experimental controls.
Center of Gravity, Pitch, Yaw	MS	SCI.8.1.c.1	Be able to use tools (e.g., English rulers [to the nearest one-sixteenth of an inch], metric rulers [to the nearest millimeter], thermometers, scales, hand lenses, microscopes, balances, clocks, calculators, anemometers, rain gauges, barometers, hygrometers, telescopes, compasses, spring scales, pH indicators, stopwatches, graduated cylinders, medicine droppers)